



California Regional Water Quality Control Board San Diego Region



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CERTIFIED MAIL – RECEIPT REQUESTED
7008 1140 0002 8455 9992

September 1, 2009

Mr. Hans Kernkamp
Riverside County Waste Management Department
14310 Frederick Street
Moreno Valley, CA 92553

In Reply Refer to:
ORCGW:205953:agrove

Dear Mr. Kernkamp:

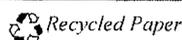
**Subject: NOTICE OF VIOLATION NO. R9-2009-0144
ANZA LANDFILL, 40329 TERWILLIGER RD, ANZA, CALIFORNIA**

Enclosed is Notice of Violation (NOV) No. R9-2009-0144 for alleged violations of the California Code of Regulations and Order No. R9-2005-0183, the waste discharge requirements (WDR) issued to the County of Riverside Waste Management Department (County) for the Anza Sanitary Landfill. The NOV specifically alleges that the County of Riverside failed to install deep monitoring well(s) as required by Directive No. C.2 of Monitoring and Reporting Program No. R9-2005-0183. In response to this Directive, the County submitted the technical report entitled *Sanitary Landfill Hydrogeologic Summary*, in which the County contends that additional deep groundwater monitoring wells are not necessary for the detection of constituents in groundwater beneath the landfill. Additional deep monitoring wells are, however, needed to determine the following:

1. The orientations and extent of primary water-bearing fractures within the (weathered) bedrock.
2. The vertical groundwater flow gradient, and extent of vertical groundwater flow within the fractured bedrock.
3. The vertical extent, if any, of the VOC-impacted groundwater plume beneath and down gradient of the site.
4. The hydraulic connection/relationship between the groundwater in the fractured bedrock underlying the site, and the alluvial aquifer downgradient of the site that supplies more than 29 wells.

In addition, the County has not demonstrated conclusively that there is only one aquifer, or water-bearing fracture zone beneath the landfill. The steep groundwater gradients mapped in the vicinity of the landfill (approximately 0.08 to 0.09), and the existence of a dense geologic layer that the air rotary and air percussion drill rigs could not penetrate could indicate a shallow water-bearing fracture zone beneath landfill with a deeper

California Environmental Protection Agency



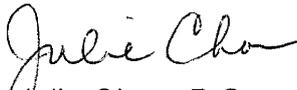
aquifer below. Therefore, in addition to the information described above, additional deep monitoring wells are needed to establish conclusively whether one or two water-bearing zones are present beneath the landfill.

Therefore, to comply with the California Code of Regulations, Title 27, section 20415(b)(1)(C)(2) and Directive C.2 of Monitoring and Reporting Program No. R9-2005-0183, the County must install an appropriate number of deep groundwater wells at the landfill to provide the information discussed above.

In the subject line of any response, please include the requested "In reply refer to:" information located in the heading of this letter. Questions pertaining to the attached NOV should be directed to Ms. Amy Grove at (858) 637-7136 or via e-mail at agrove@waterboards.ca.gov. If you feel you have received this Notice in error, or need clarification on any of the above violations, please contact our office immediately. Written correspondence should be directed to the following address:

Ms. Julie Chan
Supervising Engineering Geologist
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

Sincerely,


Julie Chan, P.G.

Chief, Groundwater Basins Branch

Attachments: Notice of Violation R9-2009-0144

cc: Ms. Laura Wallace, R.E.H.S., County of Riverside Department of Environmental Health, Local Solid Waste Management Enforcement Agency, 4080 Lemon Street, 9th Floor, Riverside, CA 92501

IN THE MATTER OF)	NOTICE OF VIOLATION
)	NO. R9-2009-0204
County of Riverside)	
Waste Management Department)	
14310 Frederick Street)	In Reply Refer to:
Moreno Valley, CA 92553)	ORCGW:205953:agrove

Waste Discharge Requirements: Order No. R9-2005-0183
 Facility: Anza Landfill

YOU ARE HEREBY NOTIFIED THAT:

The County of Riverside (County) violated Order No. R9-2005-0183, *Waste Discharge Requirements (WDRs) for Closure and Post-Closure Maintenance of the Anza Landfill, Riverside County* and California Code of Regulations (CCR) Title 27. These violations subject the County to possible further enforcement action by the California Regional Water Quality Control Board, San Diego Region (Regional Board), including administrative enforcement orders requiring the County to cease and desist from violations, or to clean up waste and abate existing or threatened conditions of pollution or nuisance; administrative civil liability in amounts of up to \$5,000 per day of violation¹; referral to the State Attorney General for injunctive relief; and referral to the District Attorney for criminal prosecution.

The Regional Board reviewed the October 2008 – March 2009 Semi-Annual Monitoring Report, the 2008 Annual Monitoring Report, the monthly status reports, and the Hydrogeologic Summary Report (dated August 2008), which provided documentation of the alleged violations.

Summary of Violations:

1. **Violation of Monitoring and Reporting Program No. R9-2005-0183 Directive C.2**

Directive C.2 of Monitoring and Reporting Program No. R9-2005-0183 required the County to monitor the deep aquifers in accordance with the performance requirements set forth in CCR Title 27 sections 20405 and 20514.

Pursuant to WDR Directive C.2.a., the County submitted a work plan² describing proposed field activities, and a time schedule for the installation of at least one new deep aquifer monitoring well. In accordance with this time schedule, which was approved by the Regional Board, the well(s) were to be completed no later than January 31, 2008. To date, the new deep aquifer monitoring well(s) have not been installed at the Anza Landfill.

¹ Under authority of California Water Code section 13350.

² The workplan entitled "Anza Sanitary Landfill: Workplan for Deep Aquifer Groundwater Analysis and Monitoring", dated March 2006, was submitted with the March 23, 2006 monthly status report.

2. Violation of CCR Title 27, Section 20415(b)(1)(C)(2)

CCR Title 27, section 20415(b)(1)(C)(2) requires the County to install sufficient number of Monitoring Points and Background Monitoring Points at appropriate locations and depths to yield groundwater samples from portions of the zone of saturation, including other aquifers, not monitored pursuant to section 20415(b)(1)(C)(1), to provide the data needed to evaluate changes in water quality due to the release from the Unit.

According to site records, the County currently monitors the first groundwater encountered beneath the site. In order to comply with the requirements of the Evaluation Monitoring Program pursuant to CCR Title 27, the County must also sample and monitor the deep aquifer located within fractured bedrock beneath the site.

Julie Chan
Julie Chan, P.G.
Chief, Groundwater Basins Branch

9/1/09
Date